

**ASSIGNMENT OF PATENT APPLICATION**  
(Not Accompanying Application)

SEP 27 2000

Whereas I/we the undersigned inventor(s) have invented certain new and useful improvements as set forth in the patent application entitled:

**ETCH ENDPOINT DETECTION**

for which I/we have executed an application for a United States Letters Patent which was filed in the U.S. Patent and Trademark Office on May 31, 2000, and which bears the Application No. TC 1700

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we the undersigned inventor(s) hereby:

- 1) Sell(s), assign(s) and transfer(s) to Lam Research Corporation, a Delaware corporation having a place of business at 4650 Cushing Parkway, Fremont, CA 94538, (hereinafter referred to as ("ASSIGNEE")), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I/we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signed on the date(s) indicated beside my (our) signature(s).

1) Signature: Tuqiang Ni  
Typed Name: Tuqiang Ni

Date: 5/31/00

2) Signature: Andrew Lui  
Typed Name: Andrew Lui

Date: 6/1/00

3) Signature: Chung-H Huang  
Typed Name: Chung-H Huang

Date: 6/1/00

4) Signature: Weinan Jiang  
Typed Name: Weinan Jiang

Date: 5/31/00